L 3021-66 EWT(1) GW

ACCESSION NR: AP5026873

CZ/0023/65/003/0011/ti035/0052

/5<sup>-</sup> /3

8

AUTHOR: Beranek, Bratislav

TITLE: Quantitative interpretation of fields derived by approximate transformation of gravity anomalies

SOURCE: Studia geophysica et geodaetica, v.9, no. 1, 1965, 35-52

TOPIC TAGS: geodesy, geology

Abstract [English article, author's Russian summary]: The quantitative interpretation is solved of fields derived by approximate transformations Gtrans of gravity anomalies g. The values of the residual anomalies g. and of the higher derivatives g. and g. are used as transformed quantities. The magnitude of the transformed quantities is studied in the peak of the anomalies Gtrans as a function of the magnitude of the region S for which the the transformed value is defined. The transformed function can be expanded into the product of two functions G and f, where only the function f is dependent on the magnitude of the region S. Using a bilogarithmic scale, the depth h and the parameters p<sub>1</sub>, p<sub>2</sub> defining the shape of the body can be found from a comparison of the theoretical curves f(t,a) and the calculated curves Gtrans(r). The problem of applying the method to simple forms of disturbing bodies (sphere, Card 1/2)

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rtical mas rcular cyl pes of the thod. "In marks which gures, 13	s segment, ellip inder, mass hor coretical curves a conclusion, the ch greatly helps formulas, and l	are presented for suther would like to improve the table.	or the practical bander the practical like to thank Vendole paper.	axis, horisontal d) is solved. Several l application of the Vyskogil for valuabl Orig. art. has 15	1 .
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L 36115-66				•	•
ACC NR: AT6016647	(N)	SOURCE CODE:	CZ/2512/64/012/000/0:	199/02	24

AUTHORS: Beranek, Bretislav; Zounkova, Milada

ORG: CND, National Enterprise, Geophysical Works, Brno

TITLE: Borehole refraction method

SOURCE: Ceskoslovenska akademie ved. Geofysikalni ustav. Geofysikalni sbornik, v. 12, 1964. Prague, 1965. Prace, no. 196-214, 199-224

TOPIC TAGS: seismic prospecting, refracted wave, seismic logging borehole logging, Acoustic REFERCTION, SEISMIC UNUE

ABSTRACT: The paper presents a method of interpreting measurements using a geophone located in a borehole below the refraction interface for recording waves excited on the surface. For the sake of brevity, this was called borehole refraction method. The paper deals primarily with numerical methods permitting the coordinates of the corresponding refraction point on the interface to be calculated from the field of ray times. Both the direct and the inverse problem were solved for a plane interface with inclination 4, as well as some methods of calculating the relative elevations with respect to the comparative horizontal

Card 1/3

L 36115-66 ACC NR. AT60166 %7

level. These methods give only approximate results. The calculation of the depth corrections and corrections for the displacement of the point (vector displacement) is intended primarily for relatively small elevations from the comparative level. As exemplified on models in the paper, even when the elevations are large, relatively satifactory results are obtained by using relations  $(p = (z_0 - \Delta z)v_1/\sqrt{(\overline{v}^2 - v_1^2)})$  or ( $\Delta z = \Delta t$  . K.). These methods are intended for quick evaluation of the results during the actual work so that the measurements can be supplemented where required. For the final treatment of the results, a numerical method is elaborated which permits the calculation of the coordinates of the refraction point if the ray time, the values of the apparent velocity, and the slope of the displacement vector (normal to isochrone) are known. The appropriate values are best obtained from the ray-time field by using a square network of points. The method is analogous to the graphical method of solving this problem according to L. M. Gardner: [Seismograph Determination of Salt-Dome Foundary Deep on the Dome Flank. Geophysics, 14 (1949), 29]. The advantage of this method is that it eliminates the necessity for three-dimensionality. A disadvantage is that in the first medium the velocity is considered to be constant and not variable with depth z. The three-dimensional solution by the graphical method using A. W. Musgrave, V. C. Wodley, H. Gray: [Outlining Salt Masses by Refraction Methods. Geophysics, 25 (1960), 141], permits

Card 2/3

#### L 36115-66

ACC NR: AT6016647

the use of wavefront charts which consider given velocity conditions. When interpreting the travel-time curves constructed from coarried ray times, we consider only the first arrival. The type of wave recorded is not known exactly. The inverse problem will be made more difficult, particularly by the diffracted waves appearing in the first; arrivals. The effect of the irregular configuration of the interface on the type of travel-time curves of the different waves was studied on several models representing a horst and a graben. It is clear from the inverse problems that the occurrence of diffracted rays greatly interferes with continuous study of the interface. The data on diffracted waves obtained from the models studied can then be applied in real measurements. For a more detailed study it would be more advantageous to carry out laboratory model measurements for different types of interface configuration. This would permit a study not only of the kinematic but also of the dynamic characteristics for distinguishing different types of waves. Better interpretation would contribute to the study of later wave arrivals. Orig. art. has: 15 figures and 12 formulas. [Author's abstract]

SUB CODE: 08/ SUBM DATE: 07Apr64/ OTH REF: 002/ SOV REF: 002

Card 3/3 1/1

CZECHOSLOVAKIA / Chemical Technology. Chemical Products. H Corrosion. Corrosion Protection.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67810.

Author : Barton K., Beranek E., Bartonova S.

Inst : Not given.

Title : Investigation of Corrosion. XV. Mechanism of Por-

mation of Corrosion Products on Steel and Zinc in Humid Atmosphere Containing Small Quantities of

HCl Vapor.

Orig Pub: Chem. 11sty, 1957, No 10, 1787-1790.

Abstract: The rate of corrosion (K) of steel and zinc in

humid atmosphere containing acid vapors depends on numerous factors of which the following ones

Card 1/3

CZECHOSLOVAKIA / Chemical Technology. Chemical Products. H
Corrosion. Corrosion Protection.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67810.

Abstract: are important: absorption of acid gases by water, hydrolytic type of a reaction that yields products of K, the nature of salt products of K and others. The authors investigated kenetics of K for Fe and Zn in an atmosphere with relative humility of 99.86 and 75% containing HCl of 1 x 10<sup>-4</sup> and 2 x 10<sup>-3</sup>%. The results showed that with Zn, centers of K were not found, however, with Fe they can be detected after 17 hours of exposure. The K-vs time curves indicate that corrosion starts only after a film of oxides is destroyed which occurs after approx. 20 hours. Increase in the rate of K is attributed to the formation of hygroscopical products of K. In the case of Fe it is characterized by an increased number of centers of K. While in the case

Card 2/3

5

CZECHOSLOVAKEA / Chemical Mechnology. Chemical Products. H
Corrosion. Corrosion Protection.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67810

Abstract: of Zn the rate of K decreases due to the formation of chlorides of Zn, whose composition changes as a function of time. Corrosion of Zn takes place at higher values of pH than those corresponding to the equilibrium concentration for vapor pressure of HCl in an atmosphere. The above was responsible for buffering of the products of K. For Part XLV see Ref Zhur-Khimiya, 1958, 25,466.

Card 3/3

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CZECHOSLOVAKIA/Chemical Technology - Chemical Products and

H-4

Their Application. Corrosion. Protection

From Corrosion.

Abs Jour

: RiZhur - Khimiya, No 8, 1958, 25165

Author

X. Barton K., Baranck E., XI. Bernnek E., Barton K., Smrcek K., Sekerka I. XII. Sekerka I., Vanicek O.

XIII. Sekerka I., Smrcek K.

Inst

Title

: Corrosion Studies. X. Mechanism of Corrosion of Metals in Humid Atmosphere Contaminated with Sulfur Dioxide. XI. Effect of Light on Corrosion of Zinc and Iron Under Atmospherin Conditions. XII. Effect of Stress on Rate of Dissolution of Metals. XIII. Rate of Corrosion of Zine in Solutions of Chlorides and Resulting Corrosion

Products.

Orig Pub

: Sb. chekhosl. khim. rabot, 1957, 22, No 2, 356-367, 368-378; No 3, 705-711, 712-720; Transl.-Chem. 11sty, 1956, 50, No 9, 1388-1389; No 10, 1563-1572; No 11, 1683-1688, 1689-1695. Abstract: See RZhKhim, 1957, 59687.

Card 1/1

BERANIK, E.

CZECHOSLOVAKIA / Physical Chemistry. Solutions, Theory of Acids and Bases. В

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60319.

Author : Frantisek Cuta, Eduard Beranek, Jan Pisecky.

: Determination of Thermodynamic Constant of Sul-Inst

furous Acid Dissociation Bases on Potentiometric Title

and Spectrophotometric Measurements.

Orig Pub: Chem. listy, 1957, 51, No 9, 1614-1617.

Abstract: The magnitude of the second constant of sulfurous acid dissociation was determined based on the titration curves, as well as spectrophotometrically. The spectrophotometric studies were carried out in

ںر

Vysoka skola chem-technol., Prague.

Card 1/2

BERANEK, EDWARD

CZECHOSLOVAKIA/Optics - Spectroscopy

K-7

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 14321

Author : Cuta Frantisek, Reranck Fluard

Inst : Not Given

: Spectrophotometry of Mixtures of Trinitrobenzol with Sul-Title

fates, Sulfides, and Cyanides

Orig Pub : Chem. listy, 1957, 51, No 9, 1669-1676

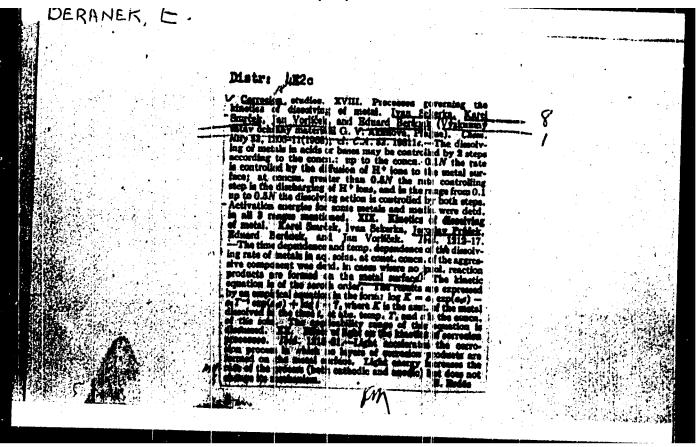
Abstract: The extinction curves were measured for mixtures of trinitro-benzel with ions SH2", SH and CN. The limiting values of pH, at which the trinitrobenzel reacts to changes in the

concentration of the above anions are determined.

Card : 1/1

COUNTRI CATEGORY Abb. Jour.	POLAND Organic Chemistry. General and Theoretical Problems of Organic Chemistry REWhim., No. 23 1959, No. 82168
21 2002 1132 1426 27 - pup	: Cuta, P.; Beranek, E.; Piscoky, J. : Spectrophotometric investigation of Products of the Reaction of Sym. Printfrobencel With the Arotices. Substitute Symbol Section 2010.
AB TRACT	: Chea. analit., 1958, 3, To 3-4, 181-289  : Sym. trimitrobenzol (I) produces a red color with the lone ONT, 863 and SNT, and with ONT a violet one reaching maximum as pN 9. The maximum of absorption increases up to a concentration of 0.5 n. NaON, and with an increase of concentration up to 9 n. PaoN. discoloration occurs. The anion and range of values of pN at which coloring takes place, the maximum of absorption of acids obtained from the addition of the anion to I in mp,
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GOUNTRY CATEGORY	:
ABS. JOUR.	: RZKhim., Jo. 23 1959, Jo. 82128
AUTHOR TO M. TERRE	
GAIG. PUB.	:
ABSTRACT	the bue assissum of absorption of Tare tiver. OII, 10.5-12.3, kpp. 3501 off, 0.3. 10. 300: 300: 31. 7-10, hol. 220: 30,-2, 6-0, 100-170. The disconlation constaint head of the first of the problem (1.30.) 170 tons of Tare to receive (1.30.) 170 tons of Tare 30,-2 it is a constaint of the form of Tare 30,-2 it is a constaint of Tare 30,-10. The disconlation of Tare 30, 10.3. The disconlation of T
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8/276/63/000/001/009/028 A006/A101

AUTHORS:

Beránek, Eduard, Pražák, Milan, Černý, Miroslav

TITLE:

Protection of metals against the effects of wear and corresion caused by suspensions in aggressive media

PERIODICAL:

Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 1, 1963, 56, abstract 1B295P (Czechosl. Patent, cl. 48 d,5, no. 100943, of September 15, 1961)

A patent is delivered for a method protecting against failure of TEXT: internal surfaces of metal pipes, through which aggressive liquids with suspended solid particles flow. It is recommended to use special admixtures, corrosion inhibitors and cathodic protection.

B. Yakovlev

[Abstracter's note: Complete translation]

Card 1/1

BERANEK, F., inz.; HORSKY, Jul.

Plan of the power supply for the Vysoke Tatry Mountains. 2dravot tech 6 no.6:270 \*63.

ANTIPOVIC, Dimitrij; BERANEK, Frantisak

Cultivation and utilization of the world variety of hop. Vest vyzk zemedel 9 no.12:245-247 162.

1. Vyzkumny ustav chmelarsky, Zatec.

9.4/30 2301 3001 2104

83390

Z/037/60/000/005/035/056

E192/E382

AUTHOR: TITLE:

Beranek, I.

Development of Photomultipliers of Czechoslovak

Manufacture

Československý časopis pro fysiku, 1960, PERIODICAL: No. 5, pp. 433 - 434

TEXT: The use of photomultipliers in various branches of science and engineering is briefly reviewed and several types of multipliers developed and manufactured in Czechoslovakia are described. The reasons for the development of special electron tubes such as 62PK401, 61PK411, 63PK10 and 61PK421 are indicated. The constructional details, technological processes, characteristics and applications of the above tubes are described. The application of these photomultipliers in nuclear pysics is discussed and modern development trends in this field are reviewed. It is pointed out that, in general, the tubes should have a high gain and a high current overload factor with regard to the dynodes. It is therefore necessary to employ compounds having high secondary emission; such compounds are employed in the dynodes. Various Card 1/2

83395 z/037/60/000/005/035/056 E192/E382

Development of Photomultipliers of Czechoslovak Manufacture

types of suitable compounds, the methods of their activation and the results obtained with them are described. The problems of developing a photomultiplier with a high resolving power are analysed. The results achieved are evaluated and an outline of future research work in this field is given.

ASSOCIATION:

Výzkumný ústav pro vakuovou elektrotechniku, Praha (Research Institute for Vacuum Electrotechnology, Prague)

Card 2/2

88199

9.4130 (2801,3502,2804)

Z/038/60/00C/010/006/006 A201/A026

26. LL 44 AUTHOR:

Beránek, Ivan

TITLE:

Czechoslovak Photomultipliers for Nuclear Engineering

PERIODICAL:

Jaderná energie, 1960, No. 10, pp. 353 - 354

TEXT: The Výzkumný ústav pro vakuovou electrotechniku (Vacuum Electrical Engineering Research Institute) in Pragie [at present: Oborový výzkumný ústav n.p. Tesla Rožnov (Special Research Institute of the Tesla Mational Enterprise in Rožnov] developed two basic photomultiplier types, which are being produced in small quantities. The 61 PK 411 photomultiplier is a ten-stage, electrostatically focused tube with a semitransparent cesium-antimonide photocathode with an effective diameter of 40 mm. A photograph of the photomultiplier is shown in Figure 1 and its principal dimensions in Figure 2. The focusing system consists of a tray-shaped electrode with a rectangular aperture. Its potential is variable within the range defined by the potentials of the photocathode and the first dynode, respectively. The dynode assembly consists of 10 dynodes in circular arrangement; the anode has the shape of a flat grid and is enclosed in the last dynode. This arrangement has the

advantage that the anode current is independent of changes in the feed current at

Card 1/5

83199 Z/038/60/000/010/005/006 A201/A026

Czechoslovak Photomultipliers for Nuclear Engineering

the last stage. The tube is mounted on a standard 14-pin base whose connection diagram is shown in Figure 3. Maximum spectral sensitivity of the photocathode is in the region of 460 m/w. Minimum integral sensitivity of the photocathode is 40 \mu a/lumen, the average being at 60 \mu a/lumen. The amplification power of the tube at a total operating voltage of 1,250 v is of the order of  $10^5 - 10^7$ . The tube is primarily designed for measurements in nuclear engineering, but it can also be used for flying-spot television pickup, and whereever luminous fluxes of very low intensity are to be indicated. The 61 Pk 421 photomultiplier is likewise a ten-stage electro-statically focused tube with a semitransparent cesium-antimonide photocathode with an effective diameter of 110 mm (effective area 100 cm2). A photograph of the tube is shown in Figure 6 and a diagram of its principal dimensions is shown in Figure 7. The focusing system consists of an internal conductive coating and a tray-shaped focusing electrode with a rectangular aperture. The electrode potential is variable within the range defined by the potentials of the photocathode and the first dynode respectively. The multiplier uses a total operating voltage of 1,400 v. The dynode assembly, tube base and its connections are similar to those of the 61 PK 411 photomultiplier. The minimum integral sensitivity of the photocathode is 25  $\mu a/lumen$ , the average being 35 - 40  $\mu a/lumen$ . The Card 2/5

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2/038/60/000/010/006/006 A201/A026

Czechoslovak Photomultiplier for Muclear Engineering

amplification power is similar to that of the 61 PK 411 photomultiplier. The 61 PK 421 photomultiplier is designed primarily for measurements in nuclear engineering, but it has a wide range of other uses, especially in color television. There are 2 photographs and 6 figures.

ASSOCIATION: Výzkumný ústav pro vakuovou electrotechniku (Vacuum Electrical Engineering Research Institute)

Figure 1: Photomultiplier 61 PK 411

Card 3/5

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Czechoslovak Photomultiplier for Nuclear Engineering

Figure 2: Principal dimension of photomultiplier 61 PK 411

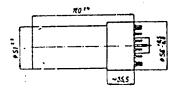
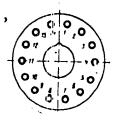
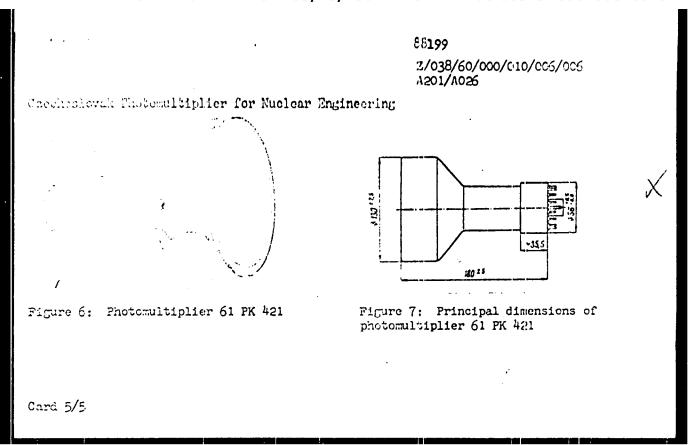


Figure 3: Connection of the base of photomultipliers 61 PK 411 and 61 PK 421. 1 through 10 - dynodes; 11 - anode; 13 - focusing electrode; 14 - photocathode



Card 4/5



BERANE	K. Iv	an .	.,	

Development of Czechoslovak photomultipliers. Sbor wak elektrotech 3:5-15 '61.

1. Vyzkumny ustav pro vakustu elektrotechniku, Prahs.,

Provider, J.; rafila, J.

Tragely and deeppements and their arranges of the second Carchem (20) no. 3:6655-34. Fro 1:4.

i. Institute of Ungenie Parlicent and biocomistor, contained vak Aranemy of Princes, it also.

PITHA, J.; BERANEK, J.

Nucleic acid components and their analogues. Pt. 32. Coll Cz Chem 28 no.6:1507-1515 Je 163.

1. Institute of Organic Chemistry and Bacchemistry, Czechoslovak Academy of Sciences, Prague.

EERANEK, Jan

Routine determining of the silica content in the air-borne dust by the differential thermal analysis. Rudy 11 no.2:60-62 F \*63.

1. Ustav pro vyzkum rud, Praha.

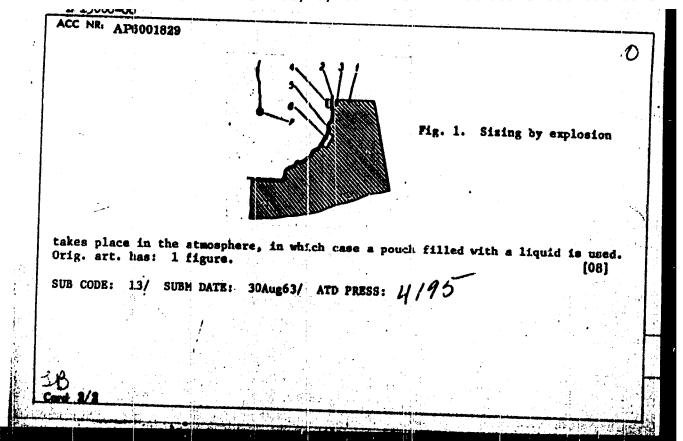
ROUSKOVA, Eva; BERANEK, Jan, promovany geolog.

Examination of the flying dust in mines by electron microscope. Rudy 11 no.11: Supplement: Prace vyzkum-nych ustavu no.6:39-46 K\*63.

1. Ustav pro vyzkum rud, Praha.

L 13886-66 EVT(m)/EVP(k)/EVP(t)/EVP(h) ID/EV ACC NR AF6001829 SOURCE C SOURCE CODE: CZ/0032/65/015/012/0956/0956 28 INVENTOR: Beranek, J. (Prague) ORG: none TITLE: Sizing by means of explosives. No. 112713 SOURCE: Strojirenstvi, v. 15, no. 12, 1965, 956 TOPIC TAGS: metal machining, metal finishing, finishing machine, explosive charge, size, sizing ABSTRACT: The invention deals with trizing by means of explosives in the case of worked pieces with holes. It is used with a protecting foil to create a vacuum between the die and the worked material. This eliminates additional manual processing. The procedure is illustrated in a diagram (Fig. 1). The worked piece 5 is placed on the operational slab of the die 1, with the hole on the rubber gasket 3. The civity with cutting edges, which has formed below the aperture in the die, is filled with hard wood 6. Foil 2 is placed on piece 5. The foil is tightened by a packing frame 4 which is used for scaling. A vacuum is formed in the space between foil 2 and the operational slab of the die. The entire assembly is submerged in a fluid and the explosive charge 7 is detonated. A similar procedure is followed when forming

Cord 1/2



CZECHOSLOVAKIA / Chemical Technology. Chemical Products. Processes and Apparatuses of Chemical Technology.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67694.

Author : Beranek J., Klumpar I.

Inst : Not given.

: Discussion of Singer's Article "Theoretical Bases of Processes Involving Pseudoliquification". Title

Orig Pub: Chem. prumys1, 1956, 6, No 3, 120-121.

Abstract: No abstract.

Card 1/1

Brenday, JAROSIA

CZECHOSLOVAKIA/Processes and Equipment for Chemical

K-l

Industries - Processes and Apparatus for Chemical

Technology

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33222

Author

: Beranek Jaroslav, Klumpar Ivan

Inst Title

: Graphic Computation of the Rate of Drop of Spherical

Particles

Orlig Pub

: Chem. prumysl, 1956, 6, No 5, 210-212

Abstract

: On the basis of the balance of forces acting upon a spherical particle droppin; within a fluid the following equation was derived:  $y = -2x \cdot q$  (I), where  $y = 1g \psi = 1g f(Re)$ ;  $= -\cos f f (Re)$ ;  $= -\cos f (Re)$ ;  $= -\cos f (Re)$ ;  $= -\cos f (Re)$ ;  $= -\cos f f (Re)$ ;

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CZECHOSLOVAKIA/Processes and Equipment for Chemical

K-1

Industries. Processes and Apparatus for Chemical

Technology

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 33222

viscosity of fluid. The abacissa of the point of intersection of the straight line defined by equation (I), with the curve  $y \in \{x\}$ , which expresses, in y - x coordinates, the correlation between the coefficient of resistance  $\psi$  and Re, determines the value of the number Recorresponding to the rate of drop of the particle. To facilitate computation a nomograph and a graph have been plotted and unified, on the combined use of which the rate of drop of the particle within the fluid can be determined, if the physical characteristics of particle and fluid are known. The discribed method of determining the rate of drop of a particle within a fluid os applicable to calculations of processes of fluidization, sedimentation, filtration and pneumatic transport.

Card 2/2

BERAREK TA

CZECHOSLOVAKIA / Chemical Technology. Chemical

Products and Their Application. Processes

and Apparatus for Chemical Technology

Abs Jour : Ref. Zhur. - Khimiya, No.2, 1958, No. 4853

: Beranek Jaroslav, Klumper Ivan Author

Inst : Not Given

: Hydrodynamic Characteristics of Fluidized Layer. Part II. New Theory of Fluidization. Title

: Chem. listy, 1956, 50, No 11, 1673-1682 Orig Pub

: The new theory of computation of the fluidiza-Abstract

tion process has been evolved on the basis of vectorial expression of hydrodynamic forces acting upon the particles, and of the theory of similitude, and it has been substantiated by experimental results of the authors and of other

Card : 1/3

CZECHOSLOVAKIA / Chemical Technology. Chemical H-2
Products and Their Application. Processes
and Apparatus for Chemical Technology

Abs Jour : Ref. Zhur. - Khimiya, No.2, 1958, No. 4853

Abstract: researchers. The deductions relate to a fluidized layer in which no intake and no withdrawal of particles occur. The theory is predicated upon the velocity of descent of the particles, in accordance with which dimensions and shape of the particle are characterized. (In utilization of the velocity of descent of the particle, new equations are proposed for the calculation of pressure loss and for expressing the Reynolds criterion; these equations do not contain the linear dimension of the particle. A general graph is given to show the correlation between depth ratio of fluidized and stagnant layers, and the ratio of flow velocity to velocity of descent; from this graph it is

Card : 2/3

CZECHOSLOVAKIA / Chemical Technology. Chemical H-2
Products and Their Application. Processes
and Apparatus for Chemical Technology

Abs Jour : Ref. Zhur. - Khimiya, No. 2, 1958, No. 4853

Abstract: possible to determine velocity values corresponding to beginning of fluidization and the beginning of entrainment of particles, and also the increase in layer depth as a function of flow velocity. Results of experiments and the published data are in good agreement with the derived equations. Part I see RZhKhim, 1957, 46831.

Card : 3/3

BERANKE, Yaroslav KLUMPAR, Ivan.

Use of a catalyst in a suspended bed in the oxidation of sulfur dioxide; criticism on the article. This. prom. no.1:42-43 Ja-F \*57. (MIRA 10:4)

1. Nauchno-issledovatel'skiy institut organicheskikh sintesov, Pardubitse-Rybitvi, Chelhoslovatskaya Eespublika. (Fluidisation) (Sulfur dioxide) (Oxidation)

BIRANIY, J.

Catalytic fluidization reactors and their design.

p. 57 (Chemicky Frumy:1. Vol. 7, nc. 2, Feb. 1957, Fraha, Czecho levakia)

Menthly Index of East European Accessions (EEMI) IC. Vol. 7, no. 2, February 1958

JAK S-AV SOY/64-59-1-14/24 5(4) Beranek, Ya., Sokol, D. AUTHORS:

Theory of the Pseudodiquified Layer ( 'eoriya pseudoozhizhennogo TITLE:

sloya)

FERIODICAL: Khimicheskaya promyshlennost', 1959, Mr 1, pp 62-68 (USSR)

ABSTRACT: The present paper is a contribution to a sequence of discussions (Refs 1-3). If the particles of a layer in heterogeneous

processes (adsorption, drying, calcination, etc) are in dynamic equilibrium with the passing medium (liquid or gas), i.e. they behave like liquids (exert a hydrostatic pressure on the wall of the vessel, are viscous, etc), this layer is called "pseudoliquid". The velocity of transition from a stationary to the "pseudoliquified layer is called "the critical velocity of pseudoliquefaction". The nature of the movement of particles in the pseudoliquified layer carbadivided into some types. Similar to the Archimedean criterion, a dynamic criterion of the quantity  $\Omega$  (which neglects the linear particle size)

is derived, and diagrams of the falling speed of spherical particles in the stagnant liquid medium (Fig 1) as well as

of particles of various shapes (Fig 2) are plotted. Experi-

Card 1/2ments on the falling speed of a mixture of particles of various

Theory of the Facudoliquified Layer

807/64-59-1-14/24

shapes were carried out in a device (Fig 3) according to the carrying-away speed, and were represented graphically (Fig 4). For the practical application of the pseudoliquified layer in industries the conditions of transition into the pseudoliquid state, the velocity of gas at which the particles are carried away from the layer, the expansion of the layer and the loss of pressure must be known. Corresponding equations and diagrams (Figs 5-7) are given for the computation of these data. There are 7 figures and 5 references, 2 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh sintezov, Pardubitse, Chekhoslovakiya (Scientific Research Institute for Organic Syntheses, Pardubice. Czechoslovakia)

Card 2/2

10(2) AUTHORS:

Beránek, J., Sokol, D.

SOV/64-59-5-17/28

TITLE:

Velocity of Pseudoliquefaction of Particles With Asymmetrical Shape

Snap

Khimicheskaya promyshlennost', 1959, Nr 5, pp 430-435 (USSR)

ABSTRACT:

PERIODICAL:

A new method was elaborated for evaluating the phase of the particle in a pseudoliquefied layer, applying the velocity of the free fall and the weight of the particle. The influence of the particle shape is usually considered by a form factor as given in tables (Ref 3). As was shown in a previous paper (Ref 5), the free fall of particles may be described by the function  $\varphi_1(Ar, \Omega) = 0$  (1). The different curves in the diagram

 $\log\Omega$  - lgAr (Ref 8) refer to the different functions according to different shapes of the particle. To determine the dynamic properties of the particle in a pseudoliquefied layer the criterion of the dynamic resemblance of particles is introduced, admitting a comparison for constant amounts of the criterion Ar or of the criterion  $\Omega$ . In spite of the sudden variation of the resistance coefficient, that occurs near the region

Card 1/2

SOY/64-59-5-17/28 Velocity of Pseudoliquefaction of Particles With Asymmetrical Shape

> of turbulence (Fig 1), calculations base on the shape of an "ideal" sphere, according to the best resemblance of its fall characteristics to that of real spheres in the laminar and transient region of the flow. The criterion of dynamical resemblance of differently shaped particles may be plotted down in diagrams (Fig 2). The flow velocity of the liquid was measured at the moment of transition into the pseudoliquefied phase for different values (in the laminar, transition and turbulence region) of the criterion, that characterizes the motion of the particles in a liquid (Fig 3). 8 examples of calculation (partly of industrial interest) explain the described method of calculation. There are 6 figures and 8 references, 1 of which is Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskich sintezov, Pardubitse, Chekhoslovakiya (Scientific Research Institute of Organic Synthesis, Pardubice, Czechoslovakia)

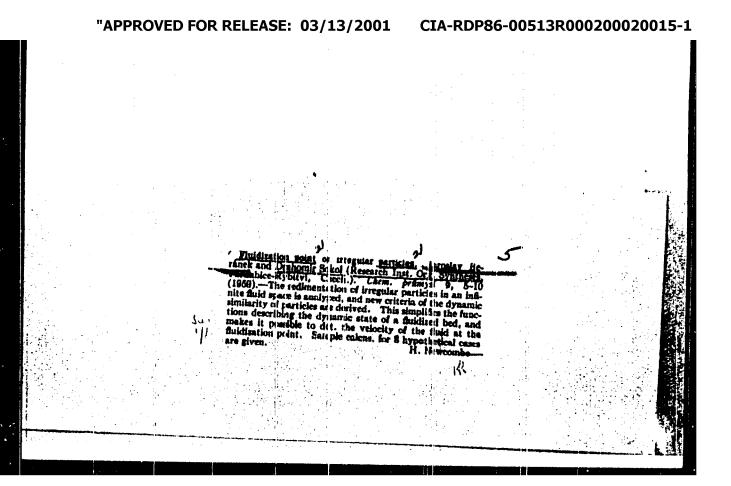
Card 2/2

BEHANEK, J.; SOKOL, D.

Fluidization point of irregular particles, p. 5

CHEMICKE PRUMYSI. (Ministeratvo chemickeho prumyslu) Praha, Czechoslovakia Vol. 9, no. 1, Jan. 1959

Monthly List of East European Accessions, (EEAI) IC, Vol. 8, No. 7, July 1959 Uncl.



Z/511/62/019/004/004/008 E073/E335

AUTHOR: Beranek, J.

TITLE: Basic economic problems of processing spent (nuclear)

fuels

PERIODICAL: Chemie a chemická technologie; Přehled technicke a hospodarske literatury, v. 19, no. h, 1962, 155, abstract Ch 62-2120 (Symposium of the First All-State Conference on Nuclear Engineering, January 28-30, 1959,

Part II, 245-267)

TEXT: Schemes of fuel cycles are outlined. In the first case, the fuel is not processed further after being removed from the reactor, in the second case, partially-spint fuel is processed and plutonium is returned to the reactor, whilst in the third case, a part of the burnt uranium is re-used together with the plutonium. Handling capacity of plants for processing irradiated fuels, selection of equipment and method of maintenance Processing and transportation of the irradiated fuel. Nuclear safety. 2 sketches, 4 diagrams, 5 tables, 21 references.

Abstracter's note: this is a complete translation.

Processing Nuclear Re	Processing of the liquid radioactive waste from the Center of Nuclear Research in Saclay. Jaderna energie 6 no.7:244-245 Jl '60.			

BERANEK, J.

International conference on plutonium metallurgy in Grenoble, 1960. Jaierna energie 6 no.9:322-323 S 160.

BERANEK, Jaroslav, insh.; SOKOL, Drakhomir [Sokol, Drahomir], insh.;
AYNSHTEYN, V.G., kand. tekhn. nauk, [translator]; GEL'FERIN,
E.I., doktor tekhn. nauk, prof., red.; IIISKAYA, B.F., ved. red.;
POLOSINA, A.S., tekhn. red.

[Techniques of fluidization] Tekhnika pseudoomhizheniia. Pod red.
N.I.Gelfperina. Moskva, Gostoptekhizdat, 1962. 159 p. Translated
from the Czech. (MIRA 15:12)

(Fluidization)

BERANEK, JAROMIR

SURVER, Given Mental

Country: Cambralovakia

Academic Degrees:

Affiliation: Two Coterinary Unit - Research Station (Krajske veterinarni zarizeni

vysetrovaci stanice) Brno

Source Propur, Shornik CSAZV, Veterinarni Medicina, Vol 6(34), No 8, Aug 61; pp 619-626

Data: "Conserved Hydrolyzed Fish Meal as High-Quality Feed Supplement"

Jaronir: veterinarian, inzenir MCROCOVA, Put SUMM, Theodor: DMM, PhD

6PO 981643

HERANEK, Jindrich A peaceful neighbor of Czechoslovakia. El tech obser 51 no.10:525.

526 0 164.

BERANEK, Jindrich

Preparing the 12th Congress of the Communist Party of Czechoslovakia. El tech obzor \$1 no.8:377-378 Ag 162.

ZEMELICKA, J; BERANEK, J.; SIRC, J.

CSSR

- Enstitute of Organic Chemistry and Biochemistry, Szechoslovak Academy of Science, Prague (for all)
- Frague, Collection of Czechoslovak Chemical Communications, No 12, 1962, pp 2764-2795
- "Preparation and Methanolysis of Uridine, 6-Azauridine and 6-Azacytidine O-Formyl Derivatives"

(3)

BERANEK, J

CZERYPRIOVAKIA

BEFAREK, J.; SORM, F.

CSUR

Institute of Organic Chemistry and Biochemistry, Geechoslovak Academy of Science, Prague (for both)

Prague, Collection of Czecheslovak Chemical Communications, No 2, 1963, pp 169-180.

"Nucleic Acids Components and their Analogues. XXIX.

The Synthesis of 5-Azacytidine-5' Phosphate and 5' Diphosphate"

		2
, 1	Institute of Organic Chemistry and Biochemistry, Grechoslovak Acadamy of Science, Prague (for all)  Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962, pp 2701-2795  "Frequential and Methanolysis of Unidine, 6-Azauridine and 6-Azacytidine O-Formyl Derivatives"	
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maar pur	(3)	

CZECHOSLOVAKIA

PITHA, J; BERAHEK, J.

Institute of Organic Chemistry and Biochemistry of the Uzechoslovak Academy of Sciences, Frague (for both)

Prague, Collection of Czechcalovak Chemical Communications, No 6, 1963, pp 1507-1514

"Nucleic Acia Components and Their Analogues. XXXII. Infared Spectra of Nucleosides with an Anomalous Heterocycli c Base. Tautomerism of 6-Azacytidine Derivatives."

# BERANEK, Jindrich

The result of the discussion preceeding the 12th Congres of the Communist Party of Czechoslovakia. El tech obzor 51 nc.12:617-618

BERANEK, J.

Discussion on the relationship between natural and social factors in human psychological functions. Cesk. psychiat. 58 no.5:339-343 0 162.

1. Katedra dialektickeho a historickeho materialismu fakulty vseobecneho lekarstvi KU v Praze.

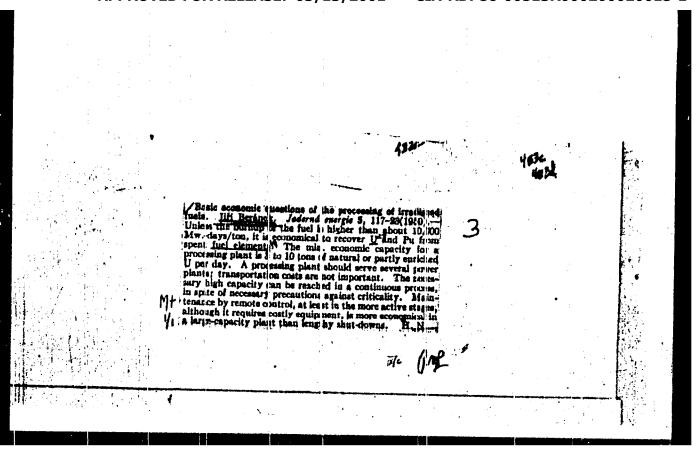
(PSYCHOLOGY)

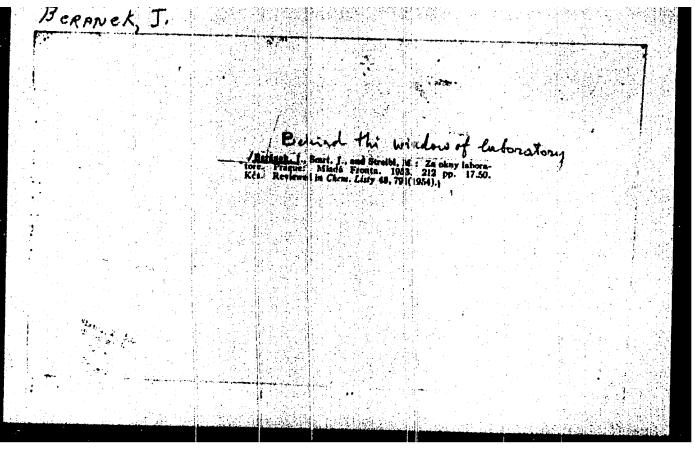
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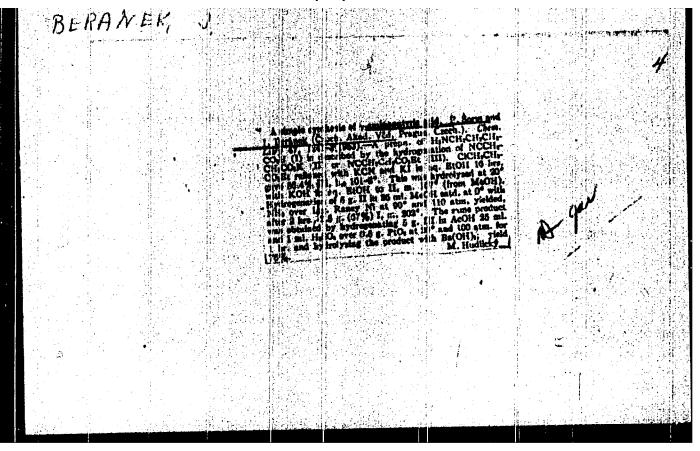
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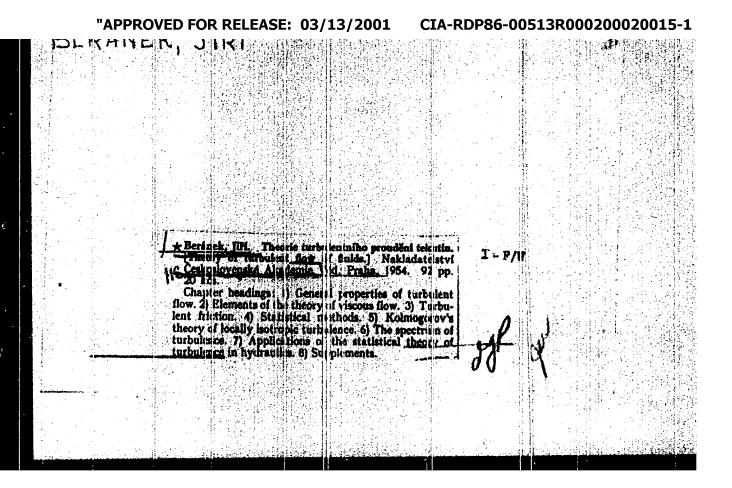
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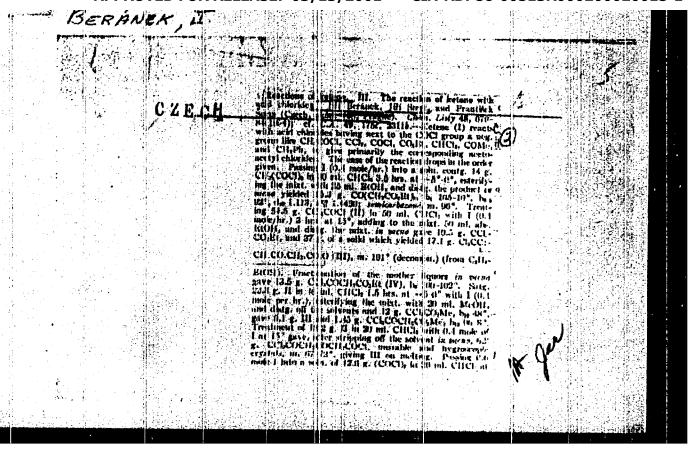
SORM, I'.; HERANEK, J.

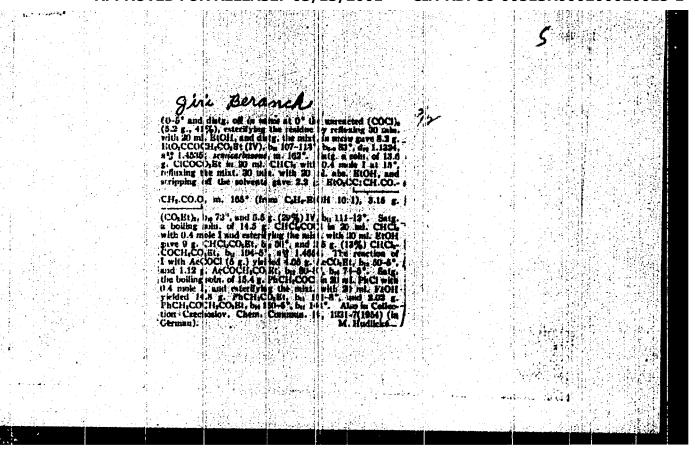
Synthesis of 1-azoniatricyclo-(3,3,3,0)-undecane bromide [in English with summary in Russian]. Sbor.Chekh.khim.rab. 19 no.2:298-304 Ap 154.

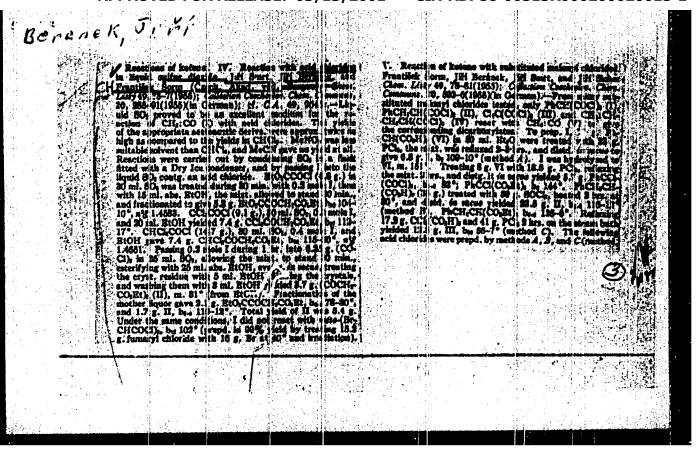
(MIRA 7:6)

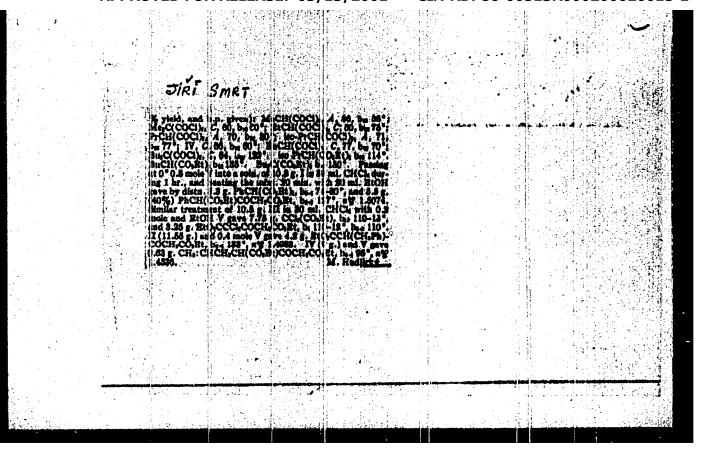
1. Department of Organic Synthesis, Institute of Organic Chemistry, Czechoslovak Academy of Science, Prague.

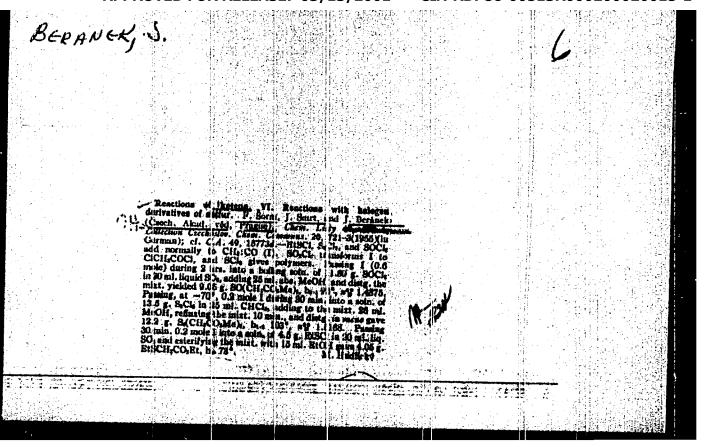
(Undecame browides)











B: "

CMECHOSLOVAKIA/Organic Chemistry. Naturally Occurring Substances and their Synthetic Analogs.

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11467.

Author : Bart, J., Beranek, J., Sicher, J., and Sorm, F.

Inst

Title : Synthesia of 4-emin-3-isopxazolidene (Cycleserine)

Orig Pub: Chem Listy, 51, No 1, 112-122 (1957) (in Czech);

Spornik Chekhorlov Khim Rabet, 22, No 1, 262-273

1

(in English with a summary in Russian)

Abstract: The antibiotic cycloserine (I) (see RZhKnim, 1956,

16239) has been synthesized from the methyl ester of Netritylserine (II) via the methyl ester of O-mesyl-W-tritylserine (III), 1-trityl-2-carbomethosyethylene-imine (IV), which on reaction with NH2OH-HCl gives

Card : 1/10

CZECHOSLOVAKIA/Organic Chemistry. Maturally Occurring Substances and their Synthetic Analogs.

Abs Jour: Referat Zhur-Khimiya, No 4, 1953, 11467.

hydroamic acid (V); the latter adds HCl with the formation of the hydrochloride of X -amino- 1 -chloropropicly-drexamic acid (VI); strengly basic anica exchange resins cyclize VI to I. For comparison purposes 4-benzylamine- (IX) and 4-benzhydrylaminoisoccazolidone-3 (X) were synthesized from N-benzyl-2-carbomethoxyethyleneimine (VII) and N-benzhydryl-2-carbomethoxyethyleneimine (VIII) by the same method. 1-benzylethyleneimine-2-carbohydrexamic acid (XI) is synthesized by refluxing 37.5 gms of the methyl ester of 1,2-dibromopropionic acid (sic) in 550 ml C6H6 for 3 hrs with 71.4 gms triethylamine and 38.2 gms benzylamine, shaking the mixture with water for 12 hrs and allowing the mixture to stand with VII /IN: meaning appears garbled for 48 hrs, obtained by eva-

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CZECHOSLOVAKIA/Grzanic Chemistry. Naturally Occurring Substances and their Synthetic Analogs.

Abs Jour: Referat Zhur-Hhimiya, No 4, 1958, 11467.

porating the benzene solution with cold (5°) hydroxylamine (prepared from 49.5 gms of the hydrochloride of hydroxylamine in 250 ml JH30H and 24.5 gms Na in 300 ml CH30H) in 50 ml CH30H, followed by evaporation to 200 ml at 20°. XI is isolated by dilution with water and neutralization with CH3COCH, yield 73.6%, amp 154-155° (from 99% alcohol). For proof of structure 0.3 gm XI is hydrogenated over 0.2 gm PtO2 in 10 ml CH300H and the product is refluced for 3 hrs with 5 ml (1:1) HCl (acid); paper chromatography using the system phenol-water-NH3 has established the presence of alanine (XII) and alanime (7:3) in the reaction mixture. Dry ECl gas is passed for 30 min at 0° into 20 gms I in 200 ml benzene, followed

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CZECHCSLCVAKIA/Crganic Chemistry. Naturally Occurring Substances and their Synthetic Analogs. G-3

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11467.

by saturation at 20°. The addition (after 24 hrs) of 200 ml ether results in the precipitation of an 6: 2 mixture of the hydrochlorides of Johnzylamino chloropropiohydroxamic acid (XIII) (yield 54.5%, mp 154-165° (decemp from CH30H)) and Johnzylamino Xohloro-propiohydroxamic acid (XIV) (yield 16.3%, mp 145° (decemp; from CH30H-ether)). XIII (like XI) gives XII and XIV affords §-XII. On standing for 12 hrs and refluxing for 1 hr with trinethylamine (in (CH30H) XIII gives XI (yield 52%). A mixture of 17.8 kms XIII in 700 ml CH30H and a solution of 15.7 kms Ma2CC3 in 1.2 liter of water (prepared at 0°) is allowed to stand 4 days (20-5°); XI (24.8%) precipitates; the filtrate is evaporated to 30 ml at 40° and acidified with 10%

Card : 4/10

CZECHOSLOVAKIA/Organic Chemistry. Naturally Occurring Substances and their Synthetic Analogs.

Abs Jour: Referat Zhur-Khimiya, No 4, 1950, 11467.

CE3COCH in 50% alcohol to pH 6; IX precipitates (28% yield), np 154° (from 90% alcohol). Then the latter product is hydrogenated in CH3COCH over PtC2 and refluxed for 3 hrs with (1:1) HCl acid, serine is obtained. A mixture (prepared at 10°) of 35.5 gms benzhydrylamine, 40.4 gms triethylamine, and 0.2 mol of the methyl ester of 1,2-dibromopropionic [sic] acid in 350 ml abs benzene is refluxed 4 hrs, the benzene solution is washed with water and evaporated; the yield of VIII is 83%, mp 100.5-101° (from benzene). When a mixture of 11.1 gms benzhydrylamine and 6.3 gms HCethylpiperidine and 10 gms of the methyl ester of 50% benzeneylic acid in 50 ml benzene is refluxed for 2 hrs, the yield of VIII is 94%. A mixture of 0.3 nol

Card : 5/10

30

CZECHOSLCVAKIA/Organic Chemistry. Naturally Occurring Substances and their Synthetic Analogs.

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11467.

VIII \[ \int \sic \] is allowed to stand for 3 days with a solution of hydroxylamine (prepared from 45.5 gas NH20H . Hol in 300 ml CH30H and 22.2 gms Na in 250 ml CH30H at 15°), the mixture is diluted with 1 liter water and neutralized with CH300H; the yield of 1-benzhydrylethyleneimine-2-cerbohydroxamic acid (XV) is 96%, mp 157-150° (decomp; from benzene). The hydrochloride of \( \lambda \) benzhydrylamino-\( \lambda \)-chloropropiohydroxamic acid (XVI) is prepared by saturating a suspension of 0,1 mol XV in 200 ml benzene with Hol gas and allowing the reaction mixture to stand 12 hrs; the yield is 47%, mp 176-178° (decomp; from (2:5) CH3CH-ether). XVI (like XI) gives XII. On refluxing (3 hrs) with (C2H5)3N in CH30H XVI again cyclizes to XV. X is obtained by mixing (0°) 0.05 mol VII in

Card : 6/10

CZECHOSLOVARIA/Cryanic Chemistry. Naturally Occurring Substances and their Synthetic Analogs. G-3

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11457.

0.5 liter CH3OH with 12.5 gms Na<sub>2</sub>CO<sub>3</sub> in 1 liter water, allowing to stand 4 days, and acidifying with 50 ml CH3COCH in 2CO ml alcohol; the yield is 73%, mp 139-141 (decemp: from CH<sub>3</sub>OH). Hydrogenation and hydrolysis of the latter product give serine. The hydrogenation of 0.03 mol. X in 1CO ml alcohol and 1 ml CH3COCH over PLO<sub>2</sub> by COO ml H<sub>2</sub> gives 2.15 gms of the amide of N-tenzhydrylserine, mp 142-1440 (from alcohol). A mixture of 0.03 mol II, 50 ml dry pyridine, and 2.5 ml mesyl chloride is kept 24 hrs at C.4 , diluted with 2CO ml water and CHCl<sub>3</sub>; III is extracted in 90% yield, mp 128° (from benzene-alcohol) 0.01 mol II in 50 ml dioxane is mixed with 1H2OH (prepared from 14 gms NH2OH.HCl in 1CO ml abs

Card : 7/10

7/

CZECHCSLOVAKIA/Organic Chemistry. Naturally Occurring Substances and their Synthetic Analogs.

G-3

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11467.

CH30H and 5.9 gms Na in 30 ml CH30H); after 3 days the reaction mixture is diluted with 100 ml water, and neutralized with CH3COCH; further dilution results in the formation of a precipitate (33 gms) of N-tritylserinehydroxamic acid, mp 109° (CH30H); the product contains 1 melecule of combined CH30H. A mixture of C.02 mol III, 20 ml C6H5, 1 ml CH3CH, and 2.5 gms N-ethylpiperidine is refluxed 8 hrs, diluted with 15 ml CHCl3, washed with water, and evaporated; the yield of IV is 80%, mp 130-131° (from benzene-cyclohexane). On standing for 3 days a mixture of 0.18 mol IV in 100 ml dioxane and 25.2 gms NH20N-HCl and 12.4 gms Na in 150 ml CH3OH

Card : 8/10

CZECHCSLCVAKIA/Organic Chemistry. Haturally Occurring Substances and their Synthetic Analogs.

G-3

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11167.

is diluted with water and neutralized with CH3CCCH; V pre dipitates, yield 94%, mp 138-140° (from 10: 1 benzene alcohol). A strityl- S-chloropropichydrox-amic acid is obtained by mixing 0.05 mol V in 200 ml abs CHOl3 with a solution of 1 mol ECl in 25 ml ether at -7.0° and evaporating the solution at 40°; the yield is 56%, mp 120-124° (From CGH5) (hydrogenation and hydrolysis both give MII). S-trityl-amino- y -chloropropionhydroxamic acid (1.8 gms) precipitates from the mother liquor following dilution with 50 ml cyclonex-ane, mp 133-136°; hydrogenation and hydrolysis give -MII. A suspension of 0.1 mol V in a mixture of 160 ml CHCl3 and 200 ml CGH6 is saturated with HCl

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CZECHOSLOVAKIA/Organic Chemistry. Eaturally Occurring Substances and their Synthetic Analogs.

G-3

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11467.

gas; after 3 hrs VI is obtained by suction filtration, yield 66%, mp 191° (decomp; from CH<sub>3</sub>OH-ether). Fydrogenation and hydrolysis of the latter product give XII. 0.06 mol VI in 100 ml water is passed for 10 min through a column containing 300 ml sic of amberlite IRA-40CC anion exchange resin (strongly basic), the column is washed with 1 liter water (1 hr), and the product is eluted at 0° with 20% CH<sub>2</sub>COOH. The eluate is collected until the pH attains 5.8, and the solution (60 ml) is diluted with 450 ml alcohol; at -50° DL-I precipitates, yield 51%, mp 141-142.50 (from 80% alcohol).

Card ; 10/10

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Chemical and Technological Aspects of the Nuclear Industry.

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28006.

Author : Beranck, J. and Holub, F.

inst:

Title : Processing of Uranium Ores. I. The Leaching of Uranium

Ores and the Precipitation of Uranium Salts.

Orig Rub: Jaderna Energie, 4, Hc 2, 34-39 (1958) (in Czech with

English and Russian summaries).

Abstract: A survey with a biblicgraphy listing ten titles. --

I. Elinek.

Card : 1/1

156

CZECHOSLOV/KI//Chemical Technology. Chemical Products and Their Applications. Chemical and Technological

Aspects of the Nuclear Industry.

Mbs Jour: Ref Zhur-Khim., No 10, 1959, 35442.

Author : Beranek, J. and Holub, F.

Inst

: The Processing of Uranium Ores. II. Separation of Uranium by Ion Exchange and by Extraction with Aqueous

Solvents. III. J

Orig Pub: Jaderna Emergie, 4, No 3, 66-73; No 4, 93-98 (1958)

(in Czech with English and Russian summeries).

Abstract: II. A review article with a bibliography listing

29 titles. III. The authors described a semi-

industrial scale plant for the processing of U ores

: 1./2 Card

Title

CMECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Chemical and Technological Aspects of the Muclear Industry.

H

Abs Jour: Ref Zhur-Khim., No 10, 1959, 35442.

under construction in the Czechoslovak Peoples Republic. The plant is designed for the investigation of a number of technological processes and modifications thereof. Questions of equipment design and of labor sanitation are also discussed. For Communication I see RZhKhim, 1959, 28006. -- I. Yelinek.

Card : 2/2

11-12

#### CIA-RDP86-00513R000200020015-1 "APPROVED FOR RELEASE: 03/13/2001

CZECHOSLOVAKIA/Chemical Technology. Chemical

Η

Products and Their Applications. Chemical and Technological Aspects of the Nuclear Industry.

Abs Jour: Ref Zhur-Khimiya, No 6, 1959, 19977

: Feranek, Jiri; Pulkrab, Antonin; Zoch, Luther

Clarich

Inst

Title : Froduction of Endioactive Isotopes in Nuc-

lear Reactors.

Orig Pub : Jaderna energic, 1958, 4, No 3, 216-220

Abstract : No abstract.

Card : 1/1

11-18

CXECHCSLOVAKIA/Chemical Technology. Chemical Freducts and Their H-13
Application. Ceramics. Glass. Binding Materials. Concrete

Abs Jour : Ref Zhur - Khim., No 24, 1958, No 82338

Author : Bernnek J., Lustig K.

Inst : Use of Silicates in the Refining of Highly Active Wastes

Orig Pub : Sklar a keramik, 1958, 8, No 4, 102-106

Abstract: The presently used method of storage of the concentrated liquid radioactive materials has considerable shortcomings.

It is safer and simpler to store such materials in the solid form. This work is devoted to the study of possibilities of the conversion of radioactive isotopes from the liquid into the solid phase. As one of such methods is the use of ionites. However, the organic ionites are subject to decomposition when acted upon by strong irradiants and, therefore, cannot be employed for highly active wastes.

Stability of the inorganic ion exchange materials, on the

card : 1/3

31

SMRT, J.; BERANER, J.; SORM, F.

Nucleic-acid components and their analogies. IV. Synthesis of \$\beta \text{-d-ribofuranosyl-6-azauracil-5}\$ phosphate and phyrophosphate.

Coll Cz Chem 25 no.1:130-137 Ja \*60. (EEAI 9:12)

1. Department of Organic Synthesis, Institute of Chemistry, Czechoslovak Academy of Science, Prague.

(Nucleic acids) (Phosphates) (Pyrophosphates) (Ribofuranosyltriazinedione)

BERANEK, J.; SMRT, J.

Nucleic-acid components and their analogues. VII.Synthesis of 6-azauracil riboside (6-azauridine) phosphates. Ccll Cz Chem 25 no.8:2029-2037 Ag 160. (EEAI 10:9)

1. Department of Organic Synthesis, Institute of Chemistry, Csecho-slovak Academy of Science, Prague.

(Nucleic acids) (Ribofuranosyltriazinedicne phosphate)
(Asauracil ribosidephosphate)

BERANEK, Jiri; HOLUB, Frantisek

Processing of uranium ores. Part 2. Jaderna energie 4 no.3:66-73 Mr 158.

1. Chemoprojekt, Praha.

BERANEK, Jiri; HOLUB, Frantisek

Processing of uranium ores. Part 3. Jaderna energie 4 no.4:93-98 Ap 158.

1. Chemoprojekt, Praha.

HERANEK, Jiri

"Nuclear chemical engineering" by M. Benedict and T.H. Pigford.
Reviewed by Jiri Beranek. Jaderna energie 4 no.6:175-176 Je '58.

BERAIEK, Jiri; PULKRAB, Antonin; ZOCH, Oldrich

Production of radacisotopes in nuclear reactors. Jaderna energie 4 no.8:216-220 Ag 158.

1. Chemoprojekt, Praha (for Beranek). 2. Vyzkumny ustav radiologicky, Praha (for Bulkrab). 3. Ministerstvo chemickeho prumyslu, Fraha (for Zoch).

Conference 6 no.4:130	on Radioactive Ap *60.	Wasto Disposs	l in Monaco	, Jaderna energie
	À			

BERANEK, J.

Decontamination of equipment in Saclay. Jaderna energie 6 no.5: 175-176 My 160.

BERANEK, J.					
Survey of uranium production. 206 Je '60.	Jaderna energie é no.6:205-				

BERANEK, J.

Uranium ore processing in Spain. Jaderna energie 6 no.6:206-208 Je 160.

BERANEK, J.

\*Bosimetry and radiation protection by R.G. Jaeger. Reviewed by J. Beranek. Jaderna energie 6 no.6:216 Je 16C.

BERANEK, J.

Construction of heavy water reactors in Canada. Jaderna energie 6 no.10:355-357 0 '60.

BERANEK, J.

Nuclear research center in Grenoble. Jaderna energie 6 no.11: 388-389 N '60.

ZEMLICKA, J.; BERANEK, J.; SMRT, J.

Preparation and methanolysis of uridine, 6-asauridine and 6-asacytidine O-formyl derivatives. Coll Cz Chem 27 no.12: 2784-2795. D '62.

1. Institute of Organic Chemistry and Biochemistry, Cuechoslovak Academy of Sciences, Prague.

BERANEK, J.; SORM, F.

Nucleic acid components and their analogues. Pt.29. Coll Cz Chem 28 no.2:469-480 F 163.

1. Institute of Organic Chemistry and Biochemistry, Gzechoslovak Academy of Sciences, Prague.

CZECHUSLOVAKIA

BEHANEK, Jaromir, MVDr

Brno

Brno, V<sub>4</sub>terinaratvi, No 12, December 1966, pp 547-549

"Absorption, excretion and toxicity of ethoxyquine, an effective stabilizer of oxidable components of forage."